

All Other Miscellaneous Electrical Equipment and Component Manufacturing: 2002

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2002 Economic Census

Manufacturing

Industry Series



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U.S. Department of Commerce
Economics and Statistics Administration
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CONTENTS

Introduction to the Economic Census	v
Manufacturing	ix

Tables

1. Historical Statistics for the Industry: 2002 and Earlier Years ...	1
2. Industry Statistics for Selected States: 2002	2
3. Detailed Statistics by Industry: 2002	3
4. Industry Statistics by Employment Size: 2002.....	4
5. Industry Statistics by Primary Product Class Specialization: 2002	5
6a. Products Statistics: 2002 and 1997	6
6b. Product Class Shipments for Selected States: 2002 and 1997 .	8
7. Materials Consumed by Kind: 2002 and 1997.....	9

Appendixes

A. Explanation of Terms	A-1
B. NAICS Codes, Titles, and Descriptions	B-1
C. Methodology	C-1
D. Geographic Notes	--
E. Metropolitan and Micropolitan Statistical Areas	--
F. Comparability of Product Classes and Product Codes: 2002 to 1997	F-1

-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
335999, All other miscellaneous electrical equipment and component manufacturing											
2002..	957	1 003	41 243	1 661 718	24 424	48 795	683 292	4 031 717	3 012 310	7 057 265	'276 221
2001..	N	N	47 444	1 742 097	28 499	55 503	709 250	4 157 251	4 092 587	8 285 443	271 482
2000..	N	N	47 766	1 830 342	28 941	56 520	743 847	5 029 072	4 492 445	9 394 438	271 692
1999..	N	N	45 971	1 663 255	28 130	55 273	686 660	4 361 077	3 665 898	7 982 005	211 796
1998..	N	N	47 232	1 625 742	29 816	56 706	699 026	4 159 134	3 486 244	7 683 599	284 274
1997..	928	978	45 640	1 542 819	28 578	55 205	675 369	3 786 415	3 276 074	7 039 768	231 419

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
335999, All other miscellaneous electrical equipment and component manufacturing												
United States	2	1 003	367	41 243	1 661 718	24 424	48 795	683 292	4 031 717	3 012 310	7 057 265	'276 221
California	1	184	76	9 941	439 265	5 518	11 434	162 312	1 135 561	694 078	1 809 076	'142 927
Colorado	5	20	5	307	11 971	167	319	4 299	19 645	19 332	39 392	'1 696
Connecticut	4	30	15	2 503	103 317	1 397	2 406	39 472	232 611	117 789	365 651	'8 276
Illinois	5	71	24	2 376	90 033	1 320	2 597	33 051	189 600	206 989	400 245	'6 103
Kansas	3	10	3	248	7 681	159	324	3 243	31 613	16 921	50 270	'701
Massachusetts	3	46	14	2 648	112 748	1 794	3 276	57 965	163 266	157 628	321 816	'15 934
Minnesota	2	27	15	1 456	46 771	824	1 603	19 573	98 805	171 014	285 552	'13 439
New Jersey	2	44	15	1 538	64 234	851	1 669	25 670	106 327	60 949	167 336	'2 590
New York	3	49	25	2 380	108 558	1 355	2 491	42 653	274 994	182 439	462 624	'6 872
Ohio	—	41	17	1 830	73 104	1 091	2 246	31 263	280 555	88 047	366 796	'8 637
Texas	6	61	19	1 265	54 200	749	1 484	21 805	126 148	97 233	222 027	'3 229
Virginia	1	12	8	837	31 008	609	1 221	15 536	97 129	47 456	140 914	'2 242
Wisconsin	—	29	10	1 072	40 444	572	1 142	14 345	100 892	100 949	203 981	'3 147

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
335999, All other miscellaneous electrical equipment and component manufacturing	
Companies ¹	number.. 957
All establishments ²	number.. 1 003
Establishments with 1 to 19 employees	number.. 636
Establishments with 20 to 99 employees	number.. 272
Establishments with 100 employees or more	number.. 95
All employees ³	number.. 41 243
Total compensation	\$1,000.. 2 022 897
Annual payroll	\$1,000.. 1 661 718
Total fringe benefits	\$1,000.. 361 179
Production workers, average for year	number.. 24 424
Production workers on March 12	number.. 24 808
Production workers on May 12	number.. 24 684
Production workers on August 12	number.. 24 264
Production workers on November 12	number.. 23 861
Production worker hours	1,000.. 48 795
Production worker wages	\$1,000.. 683 292
Total cost of materials	\$1,000.. 3 012 310
Materials, parts, containers, packaging, etc., used	\$1,000.. 2 483 484
Resales	\$1,000.. 366 299
Purchased fuels	\$1,000.. 6 101
Purchased electricity	\$1,000.. 36 611
Contract work	\$1,000.. 119 815
Quantity of electricity purchased for heat and power	1,000 kWh.. 462 694
Quantity of electricity generated less sold for heat and power	1,000 kWh.. -
Total value of shipments	\$1,000.. 7 057 265
Primary products value of shipments	\$1,000.. 6 252 154
Secondary products value of shipments	\$1,000.. 260 636
Total miscellaneous receipts	\$1,000.. 544 475
Value of resales	\$1,000.. 422 829
Contract receipts	\$1,000.. 53 050
Other miscellaneous receipts	\$1,000.. 68 596
Primary products specialization ratio	percent.. 96
Value of primary products shipments made in all industries	\$1,000.. 7 276 200
Value of primary products shipments made in this industry	\$1,000.. 6 252 154
Value of primary products shipments made in other industries	\$1,000.. 1 024 046
Coverage ratio	percent.. 86
Value added	\$1,000.. 4 031 717
Total inventories, beginning of year	\$1,000.. 1 406 794
Finished goods inventories	\$1,000.. 419 066
Work-in-process inventories	\$1,000.. 317 860
Materials and supplies inventories	\$1,000.. 669 868
Total inventories, end of year	\$1,000.. 1 402 280
Finished goods inventories	\$1,000.. 405 986
Work-in-process inventories	\$1,000.. 317 702
Materials and supplies inventories	\$1,000.. 678 592
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '2 139 468
Total capital expenditures (new and used)	\$1,000.. '276 221
Buildings and other structures (new and used)	\$1,000.. '54 022
Machinery and equipment (new and used)	\$1,000.. '222 199
Automobiles, trucks, etc., for highway use	\$1,000.. '5 180
Computers and peripheral data processing equipment	\$1,000.. '34 703
All other expenditures for machinery and equipment	\$1,000.. '182 316
Total retirements	\$1,000.. '192 770
Gross value of depreciable assets at end of year	\$1,000.. '2 222 919
Depreciation charges during year	\$1,000.. '178 401
Total rental payments	\$1,000.. 106 115
Buildings and other structures	\$1,000.. 67 362
Machinery and equipment	\$1,000.. 38 753
Total other expenses ⁴	\$1,000.. 510 460
Response coverage ratio ⁵	percent.. 56
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 14 873
Communications services ⁴	\$1,000.. 16 938
Legal services ⁴	\$1,000.. 17 238
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 7 742
Advertising and promotional services ⁴	\$1,000.. 37 745
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 16 947
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 2 756
Management consulting and administrative services ⁴	\$1,000.. 31 280
Taxes and license fees ⁴	\$1,000.. 14 498
All other expenses ⁴	\$1,000.. 350 443

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
335999, All other miscellaneous electrical equipment and component manufacturing											
All establishments	2	1 003	41 243	1 661 718	24 424	48 795	683 292	4 031 717	3 012 310	7 057 265	'276 221
Establishments with—											
1 to 4 employees	9	374	781	27 509	494	823	12 299	53 895	41 959	95 683	'1 697
5 to 9 employees	6	137	941	40 431	585	1 190	16 799	101 142	73 844	178 821	'2 754
10 to 19 employees	5	125	1 757	76 113	1 011	2 056	30 108	176 032	134 359	309 233	'6 210
20 to 49 employees	3	169	5 344	217 909	3 138	6 293	86 487	452 698	386 298	838 093	'24 535
50 to 99 employees	3	103	7 326	297 563	4 105	8 431	116 113	716 624	578 058	1 294 980	'46 203
100 to 249 employees	2	60	8 876	350 646	5 161	10 480	140 281	824 422	673 600	1 496 562	'38 053
250 to 499 employees	1	23	7 385	282 514	4 572	8 923	128 732	809 773	617 035	1 448 091	'37 869
500 to 999 employees	—	11	i	D	D	D	D	D	D	D	D
1,000 to 2,499 employees	—	1	g	D	D	D	D	D	D	D	D
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	455	1 920	77 294	1 257	2 404	33 750	154 559	127 888	279 551	'5 044

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
335999	All other miscellaneous electrical equipment and component manufacturing	1 003	41 243	1 661 718	24 424	48 795	683 292	4 031 717	3 012 310	7 057 265	'276 221
3359991	Capacitors for industrial use (except for electronic circuitry)	11	932	31 309	638	1 277	19 185	86 276	70 553	156 748	'3 307
3359993	Rectifying apparatus	102	13 143	488 435	8 124	16 178	217 249	1 119 806	1 165 128	2 295 496	'82 937
3359996	Other electrical equipment for industrial use (except for electronic circuitry)	40	2 579	110 633	1 501	3 130	45 836	269 830	181 402	456 917	'15 680
3359997	Laser generator power supplies and components	18	4 468	232 628	2 333	4 945	86 956	619 683	333 163	939 530	'108 125
3359999	All other laser systems and equipment	25	1 134	53 979	548	1 139	17 428	126 993	74 739	201 949	'2 939
335999A	Ultrasonic equipment (except medical and dental)	15	1 735	76 705	825	1 638	24 787	149 252	107 262	261 875	'3 466
335999B	Apparatus wire and cord and flexible cord sets (except wiring harnesses and fiber optic), made from purchased insulated wire	16	953	24 576	742	1 457	14 578	52 764	49 584	103 086	'1 791
335999E	All other miscellaneous electrical equipment and components (except for industrial use)	15	1 172	47 389	646	1 356	19 697	78 116	70 627	148 393	'3 115
335999F	All other miscellaneous electronic systems and equipment (including automatic garage door openers, and amplifiers)	43	4 553	177 579	2 539	4 895	65 410	703 653	291 542	1 002 440	'17 535

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
335999	All other miscellaneous electrical equipment and component manufacturing	2002.. N 1997.. N	X X	X X	7 276 200 6 760 387
3359991	Capacitors for industrial use (except for electronic circuitry)	2002.. N 1997.. N	X X	X X	147 592 299 541
33599911	Capacitors for industrial use (except for electronic circuitry)	2002.. N 1997.. N	X X	X X	146 420 299 541
3359991101	Shunt and series power capacitors, units, and equipment, one-half kVA or more, including accessories for industrial use (except for electronic circuitry)	2002.. 8 1997.. 13	X X	X X	99 749 224 018
3359991103	Other capacitors (except electrolytic), including air-conditioning, motors and controls for general-purpose use, and high intensity discharge lighting for industrial use (except for electronic circuitry)	2002.. 9 1997.. 9	X X	X X	46 671 75 523
3359991Y	Capacitors for industrial use (except for electronic circuitry), nsk	2002.. N 1997.. N	X X	X X	1 172 -
3359991YWV	Capacitors for industrial use (except for electronic circuitry), nsk	2002.. N 1997.. N	X X	X X	1 172 -
3359993	Rectifying apparatus	2002.. N 1997.. N	X X	X X	2 030 038 1 790 911
33599931	Semiconductor power conversion apparatus (except for electronic circuitry)	2002.. N 1997.. N	X X	X X	618 894 604 070
3359993101	Semiconductor battery chargers, automotive	2002.. 13 1997.. 5	X X	X X	208 536 D
3359993104	Semiconductor battery chargers, industrial and railroad	2002.. 22 1997.. 11	X X	X X	122 551 159 341
3359993107	Semiconductor high-voltage power supplies in excess of 2 kV, 100 kW or less	2002.. 21 1997.. 19	X X	X X	269 649 214 778
3359993111	Semiconductor high-voltage power supplies in excess of 2 kV, more than 100 kW	2002.. 6 1997.. 6	X X	X X	18 158 D
33599932	All other ac to dc semiconductor power conversion and rectifying apparatus (except for electronic circuitry)	2002.. N 1997.. N	X X	X X	1 398 811 1 094 565
3359993213	All other ac to dc semiconductor power conversion apparatus	2002.. 39 1997.. 40	X X	X X	337 396 483 364
3359993216	Uninterruptible power supply (UPS) systems	2002.. 33 1997.. 18	X X	X X	642 011 142 047
3359993219	Other rectifying (power conversion) apparatus (except for electronic circuitry)	2002.. 26 1997.. 49	X X	X X	419 404 469 154
3359993Y	Rectifying apparatus, nsk	2002.. N 1997.. N	X X	X X	12 333 92 276
3359993YWV	Rectifying apparatus, nsk	2002.. N 1997.. N	X X	X X	12 333 92 276
3359996	Other electrical equipment for industrial use (except for electronic circuitry)	2002.. N 1997.. N	X X	X X	473 451 N
33599961	Other electrical equipment for industrial use (except for electronic circuitry)	2002.. N 1997.. N	X X	X X	473 451 N
3359996101	Electrical coil windings for industrial use	2002.. 12 1997.. N	X X	X X	50 853 N
3359996107	Surge suppressors for industrial use	2002.. 7 1997.. N	X X	X X	61 492 N
3359996111	Cathodic protection equipment for industrial use	2002.. 6 1997.. N	X X	X X	79 248 N
3359996137	All other miscellaneous electrical equipment for industrial use, including electrical discharge equipment	2002.. 40 1997.. N	X X	X X	281 858 N
3359996Y	Other electrical equipment for industrial use, except for electronic circuitry, nsk	2002.. N 1997.. N	X X	X X	- N
3359996YWV	Other electrical equipment for industrial use, except for electronic circuitry, nsk	2002.. N 1997.. N	X X	X X	- N
3359997	Laser generator power supplies and components	2002.. N 1997.. N	X X	X X	903 768 1 076 329
33599971	Laser generator power supplies and components	2002.. N 1997.. N	X X	X X	903 768 1 076 329
3359997100	Laser generator power supplies and components ¹	2002.. 27 1997.. 47	X X	X X	903 768 1 076 329
3359999	All other laser systems and equipment	2002.. N 1997.. N	X X	X X	176 144 145 221
33599991	All other laser systems and equipment	2002.. N 1997.. N	X X	X X	176 144 145 221
3359999100	All other laser systems and equipment	2002.. 28 1997.. 28	X X	X X	176 144 145 221
335999A	Ultrasonic equipment (except medical and dental)	2002.. N 1997.. N	X X	X X	224 817 223 878
335999A1	Ultrasonic equipment (except medical and dental)	2002.. N 1997.. N	X X	X X	224 817 223 878
335999A100	Ultrasonic equipment (except medical and dental) ¹	2002.. 14 1997.. 23	X X	X X	224 817 223 878
335999B	Apparatus wire and cord and flexible cord sets (except wiring harnesses and fiber optic), made from purchased insulated wire	2002.. N 1997.. N	X X	X X	93 105 348 154

See footnotes at end of table.

Table 6a. Products Statistics: 2002 and 1997—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
335999	All other miscellaneous electrical equipment and component manufacturing—Con.				
335999B	Apparatus wire and cord and flexible cord sets (except wiring harnesses and fiber optic), made from purchased insulated wire—Con.				
335999B1	Apparatus wire and cord and flexible cord sets (except wiring harnesses and fiber optic), made from purchased insulated wire	2002.. 1997..	N N	X X	93 105 348 154
335999B100	Apparatus wire and cord and flexible cord sets (except wiring harnesses and fiber optic), made from purchased insulated wire ²	2002.. 1997..	21 46	X X	93 105 348 154
335999E	All other miscellaneous electrical equipment and components (except for industrial use)	2002.. 1997..	N N	X X	218 643 N
335999E1	Electric gongs, chimes, bells, etc.	2002.. 1997..	N N	X X	D N
335999E101	Electric gongs, chimes, bells, etc.	2002.. 1997..	6 N	X X	D N
335999E3	Electrical door openers, except garage door openers	2002.. 1997..	N N	X X	D N
335999E305	Electrical door openers, except garage door openers	2002.. 1997..	6 N	X X	D N
335999E5	Surge suppressors, designed for equipment operating on 110-120 volt circuits	2002.. 1997..	N N	X X	86 375 N
335999E509	Surge suppressors, designed for equipment operating on 110-120 volt circuits	2002.. 1997..	19 N	X X	86 375 N
335999EY	All other miscellaneous electrical equipment and components (except for industrial use), nsk	2002.. 1997..	N N	X X	1 013 N
335999EYWV	All other miscellaneous electrical equipment and components (except for industrial use), nsk	2002.. 1997..	N N	X X	1 013 N
335999F	All other miscellaneous electronic systems and equipment (including automatic garage door openers, and amplifiers)	2002.. 1997..	N N	X X	1 613 570 N
335999F1	All other miscellaneous electronic systems and equipment (including automatic garage door openers, and amplifiers)	2002.. 1997..	N N	X X	1 613 570 N
335999F100	All other miscellaneous electronic systems and equipment (including automatic garage door openers, and amplifiers)	2002.. 1997..	75 N	X X	1 613 570 N
335999W	All other miscellaneous electrical equipment and component manufacturing, nsk, total	2002.. 1997..	N N	X X	1 395 072 509 369
335999WY	All other miscellaneous electrical equipment and component manufacturing, nsk, total	2002.. 1997..	N N	X X	1 395 072 509 369
335999WYWW	All other miscellaneous electrical equipment and component manufacturing, nsk, for nonadministrative-record establishments	2002.. 1997..	N N	X X	1 136 543 356 743
335999WYWY	All other miscellaneous electrical equipment and component manufacturing, nsk, for administrative-record establishments	2002.. 1997..	N N	X X	258 529 152 626

¹For additional detail, see Current Industrial Report MA334P, Communication and Other Electronic Equipment.

²For additional detail, see Current Industrial Report MA334P, Communication and Other Electronic Equipment. Also, this product code is primary to more than one industry. See industries 331319, 331422 and 331491, product codes 331319E101, 3314224218 and 331491F100.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p—10 to 19 percent estimated; q—20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3359991	Capacitors for industrial use (except for electronic circuitry)	
	United States	147 592
	1997	299 541
3359993	Rectifying apparatus	
	United States	2 030 038
	1997	1 790 911
	California	520 502
	1997	378 725
	Connecticut	24 350
	1997	43 514
	Illinois	169 327
	1997	249 389
	Massachusetts	154 248
	1997	212 000
	Minnesota	111 839
	1997	64 535
	New Jersey	75 893
	1997	42 269
	New York	58 027
	1997	92 908
	Ohio	46 164
	1997	183 619
	Texas	42 890
	1997	65 394
	Wisconsin	47 118
	1997	19 616
3359996	Other electrical equipment for industrial use (except for electronic circuitry)	
	United States	473 451
	1997	N
	California	32 576
	1997	N
	New York	92 603
	1997	N
	Ohio	73 117
	1997	N
3359997	Laser generator power supplies and components	
	United States	903 768
	1997	1 076 329
	California	680 845
	1997	704 940
3359999	All other laser systems and equipment	
	United States	176 144
	1997	145 221
	California	44 575
	1997	82 424
	New Jersey	13 829
	1997	N
335999A	Ultrasonic equipment (except medical and dental)	
	United States	224 817
	1997	223 878
335999B	Apparatus wire and cord and flexible cord sets (except wiring harnesses and fiber optic), made from purchased insulated wire	
	United States	93 105
	1997	348 154
	California	5 124
	1997	56 762
335999E	All other miscellaneous electrical equipment and components (except for industrial use)	
	United States	218 643
	1997	N
	California	29 602
	1997	N
335999F	All other miscellaneous electronic systems and equipment (including automatic garage door openers, and amplifiers)	
	United States	1 613 570
	1997	N
	California	212 405
	1997	N
	Illinois	23 702
	1997	N
	New York	153 296
	1997	N
	Texas	41 450
	1997	N

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
335999	All other miscellaneous electrical equipment and component manufacturing		
00900001	Total materials .....2002..	X	2 483 484
	.....1997..	X	2 833 415
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	15 529
	.....1997..	X	26 929
33210000	Forgings .....2002..	X	1 029
	.....1997..	X	N
33100035	Castings, rough and semifinished .....2002..	X	5 481
	.....1997..	X	7 920
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	16 140
	.....1997..	X	35 614
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	7 320
	.....1997..	X	5 268
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	33 766
	.....1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products) .....2002..	X	10 744
	.....1997..	X	N
332000AC	Metal stampings .....2002..	X	36 714
	.....1997..	X	N
332000A9	Sheet metal products (excluding stampings) .....2002..	X	36 529
	.....1997..	X	N
33200033	Other fabricated metal products (excluding forgings) .....2002..	X	59 209
	.....1997..	X	N
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting) .....2002..	X	16 701
	.....1997..	X	N
33441400	Capacitors for electronic circuitry .....2002..	X	29 223
	.....1997..	X	N
33441500	Resistors for electronic circuitry .....2002..	X	13 027
	.....1997..	X	N
33441200	Printed circuit boards (without inserted components) for electronic circuitry .....2002..	X	31 487
	.....1997..	X	N
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components) .....2002..	X	132 463
	.....1997..	X	N
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry .....2002..	X	48 822
	.....1997..	X	N
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes) .....2002..	X	124 280
	.....1997..	X	N
331000A7	Insulated wire and cable (including magnet wire) .....2002..	X	49 006
	.....1997..	X	N
33531405	Industrial electrical control equipment .....2002..	X	51 133
	.....1997..	X	N
33593101	Current-carrying wiring devices .....2002..	X	47 460
	.....1997..	X	N
33531211	Fractional horsepower electric motors (less than 1 hp) .....2002..	X	D
	.....1997..	X	42 685
33422001	Electronic communication equipment .....2002..	X	D
	.....1997..	X	4 885
33451501	Electrical instrument mechanisms and meter movements (including instrument relays) .....2002..	X	11 245
	.....1997..	X	N
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control) .....2002..	X	33 920
	.....1997..	X	N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) .....2002..	X	13 836
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	958 651
	.....1997..	X	1 636 964
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	688 392
	.....1997..	X	1 073 150

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.